

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A wireless communication system, comprising:

a first communication unit including:

a first wireless communication unit for performing wireless data communication,

a first wired communication unit for performing wired data communication and

a first change-over switch for switching between wireless data communication using said first wireless communication unit and wired data communication using said first wired communication unit; and

a second communication unit including:

a second wireless communication unit for performing wireless data communication with said first wireless communication unit,

a second wired communication unit for performing wired data communication with said first wired communication unit, and

a second change-over switch for switching between wireless data communication using said second wireless communication unit and wired data communication using said second wired communication unit,

wherein said first communication unit further includes:

a first wired connection detecting section for detecting whether or not a wired connection for said wired data communication exists between said first wired communication unit and said second wired communication unit;

an application for detecting a wireless connection; and

a connection control section which:

1) responsive to said first wired connection detecting section detecting that said wired connection between said wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal said second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to said application detecting that said wireless connection between said first wireless communication unit and said second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit begin to communicate using said wired data communication a) after said first change-over switch and said second change-over switch have been switched to said wired data communication and b) after wireless data communication between said first wireless unit and said second wireless unit has stopped; and

wherein said first wireless communication unit and said second wireless communication unit begin to communicate using said wireless data communication a) after said first change-over switch and said second change-over switch have been switched to said wireless data communication and b) after wired data communication between said first wired unit and said second wired unit has stopped.

2. (Cancelled)

3. (Previously Presented) The wireless communication system according to claim 1, wherein said first communication unit further includes first signal level

adjusting unit configured to adjust, when said first wired connection detecting section detects that said wired connection is being performed, a signal level so that said wired data communication is performed using a signal level smaller than the signal level necessary for said wireless data communication.

4. (Currently Amended) A communication unit comprising:

a first communication unit including:

a first wireless communication unit for performing wireless data communication;

a first wired communication unit for performing wired data communication;

a first change-over switch for switching between wireless data communication using said first wireless communication unit and wired data communication using said first wired communication unit;

a first wired connection detecting section for detecting whether or not a wired connection for said wired data communication exists between said first wired communication unit and a second wired communication unit;

an application for detecting a wireless connection; and

a connection control section which:

1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal a second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to said application detecting that said wireless connection between said first wireless communication unit and a second wireless

communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit communicate using said wired data communication after said first change-over switch and said second change-over switch have been switched to said wired data communication; and

wherein said first wired communication unit and said second wired communication unit begin to communicate using said wired data communication a) after said first change-over switch and said second change-over switch have been switched to said wired data communication and b) after wireless data communication between said first wireless unit and said second wireless unit has stopped; and

wherein said first wireless communication unit and said second wireless communication unit begin to communicate using said wireless data communication a) after said first change-over switch and said second change-over switch have been switched to said wireless data communication and b) after wired data communication between said first wired unit and said second wired unit has stopped.

5. (Cancelled)

6. (Currently Amended) A wireless communication unit comprising:

a second communication unit including:

a second wireless communication unit for performing, with a first wireless communication unit for performing wireless data communication, wireless data communication;

a second wired communication unit for performing wired data communication; and

a second change-over switch for switching between wireless data communication using said second wireless communication unit and wired data communication using said second wired communication unit, wherein

a first wired connection detection section detects whether or not a wired connection for said wired data communication exists between a first wired communication unit and said second wired communication unit;

an application detects a wireless connection; and

a connection control section:

1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal said second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to said application detecting that said wireless connection between a first wireless communication unit and said second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit communicate using said wired data communication after a first change-over switch and said second change-over switch have been switched to said wired data communication; and

wherein said first wired communication unit and said second wired communication unit begin to communicate using said wired data communication a after said first change-over switch and said second change-over switch have been

switched to said wired data communication and b) after wireless data communication between said first wireless unit and said second wireless unit has stopped; and

wherein said first wireless communication unit and said second wireless communication unit begin to communicate using said wireless data communication a) after said first change-over switch and said second change-over switch have been switched to said wireless data communication and b) after wired data communication between said first wired unit and said second wired unit has stopped.

7. (Cancelled)

8. (Currently Amended) A wireless communication method comprising:

a first wireless communication step of performing wireless data communication;

a first wired communication step of performing wired data communication;

a first change-over step of switching between wireless data communication using a first wireless communication unit and wired data communication using a first wired communication unit;

a second wireless communication step of performing, wireless data communication with said first wireless communication unit;

a second wired communication step of performing wired data communication, with said first wired communication unit; and

a second change-over step of switching between wireless data communication using a second wireless communication unit and wired data communication using a second wired communication unit;

a first wired connection detecting step of detecting whether or not a wired connection for said wired data communication exists between said first wired communication unit and said second wired communication unit;

a connection control step which:

1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to an application detecting that said wireless connection between said first wireless communication unit and said second wireless communication unit exists, uses said wired data communication to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit begin to communicate using said wired data communication a) after said first change-over switch and said second change-over switch have been switched to said wired data communication and b) after wireless data communication between said first wireless unit and said second wireless unit has stopped; and

wherein said first wireless communication unit and said second wireless communication unit begin to communicate using said wireless data communication a) after said first change-over switch and said second change-over switch have been switched to said wireless data communication and b) after wired data communication between said first wired unit and said second wired unit has stopped.

9. (Currently Amended) A wireless communication method comprising:

a wireless communication step of performing wireless data communication;

a wired communication step of performing wired data communication

a change-over step of switching between wireless data communication using a first wireless communication unit and wired data communication using a first wired communication unit;

a first wired connection detecting step of detecting whether or not a wired connection for said wired data communication exists between said first wired communication unit and a second wired communication unit;

a connection control step which:

- 1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal said second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and
- 2) responsive to an application detecting that said wireless connection between said first wireless communication unit and a second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit begin to communicate using said wired data communication a) after said first change-over switch and said second change-over switch have been switched to said wired data communication and b) after wireless data communication between said first wireless unit and said second wireless unit has stopped; and

wherein said first wireless communication unit and said second wireless communication unit begin to communicate using said wireless data communication a) after said first change-over switch and said second change-over switch have been switched to said wireless data communication and b) after wired data communication between said first wired unit and said second wired unit has stopped.

10. (Currently Amended) A wireless communication method, comprising:

a wireless communication step of performing wireless data communication, using second wireless communication means configured to perform, with first wireless communication means configured to perform wireless data communication, said wireless data communication;

a wired communication step of performing wired data communication

a change-over step of switching between wireless data communication using a second wireless communication unit and wired data communication using a second wired communication unit, wherein

a first wired connection detecting step detects whether or not a wired connection for said wired data communication exists between a first wired communication unit and said second wired communication unit,

a connection control step:

1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal said second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to said application detecting that said wireless connection between a first wireless communication unit and said second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit begin to communicate using said wired data communication a after said first change-over switch and said second change-over switch have been

switched to said wired data communication and b) after wireless data communication between said first wireless unit and said second wireless unit has stopped; and

wherein said first wireless communication unit and said second wireless communication unit begin to communicate using said wireless data communication a) after said first change-over switch and said second change-over switch have been switched to said wireless data communication and b) after wired data communication between said first wired unit and said second wired unit has stopped.

11. (Previously Presented) A tangible computer readable recording medium including software to control a computer to execute the steps of the wireless communication method according to claim 8.

12. (Previously Presented) A tangible computer readable recording medium including software to control a computer to execute the steps of the wireless communication method according to claim 9.

13. (Previously Presented) A tangible computer readable recording medium including software to control a computer to execute the steps of the wireless communication method according to claim 10.

14. (Cancelled)

15. (Currently Amended) A wireless communication unit comprising:

a first communication unit including:

a first wireless communication unit for performing wireless data communication;

a first wired communication unit for performing wired data communication;

a first change-over switch for switching between wireless data communication using said first wireless communication unit and wired data communication using said first wired communication unit;

a first wired connection detecting,

section for detecting whether or not a wired connection for said wired data communication exists between said first wired communication unit and a second wired communication unit;

an application for detecting a wireless connection; and

a connection control section which:

1) responsive to said first wired connection detecting section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal a second change-over switch to switch from a) said wireless data communication using said second wireless communication unit to b) said wired data communication using said second wired communication unit, and

2) responsive to said application detecting that said wireless connection between said first wireless communication unit and a second wireless communication unit exists, uses said wired data communication to signal said second change-over switch to switch from a) said wired data communication using said second wired communication unit to b) said wireless data communication using said second wireless communication unit;

wherein said first wired communication unit and said second wired communication unit begin to communicate using said wired data communication a) after said first change-over switch and said second change-over switch have been switched to said wired data communication and b) after wireless data communication between said first wireless unit and said second wireless unit has stopped; and

wherein said first wireless communication unit and said second wireless communication unit begin to communicate using said wireless data communication a) after said first change-over switch and said second change-over switch have been

switched to said wireless data communication and b) after wired data communication between said first wired unit and said second wired unit has stopped,

wherein, (1) when said first wired connection detecting unit detects said wired connection is being performed, said first change-over unit changes over so that said wired data communication is performed, and using control signals that can be exchanged between said first change-over unit and second change-over unit when said wired connection is being performed, gives a change-over instruction to said second change-over unit, which is configured to change over whether said wireless data communication should be performed using second wireless communication unit configured to perform said wireless data communication with said first wireless communication unit or said wired data communication should be performed using said second wired communication unit, to change over so that said wired data communication is performed, (2) when a third wired connection detecting unit, which is configured to detect whether or not said wired connection is being performed between said first wired communication unit and third wired communication unit configured to perform a wired data communication with said first wired communication unit using a wired connection, detects that said wired connection is being performed, a third change-over unit, which is configured to change over whether said wireless data communication should be performed using third wireless communication unit configured to perform said wireless data communication with said first wireless communication unit or said wired data communication should be performed using said third wired communication unit, changes over so that said wired data communication is performed using said third wired communication unit, and using control signals that can be exchanged between said first change-over unit and third change-over unit when said wired connection is being performed, gives a change-over instruction to said first change-over unit, to change over so that said wired data communication is performed, and said first change-over unit changes over, based on the change-over instruction given by said third change-over unit, so that said wired data communication is performed.

16. (Previously Presented) A wireless communication system according to claim 1, wherein:

said first communication unit is further for signaling said second communication unit through said wired data communication;

said second communication unit is further for responding to said signaling from said first communication unit through said wired data communication with an address corresponding to said second communication unit; and

said first communication unit is further for establishing a link between said first communication unit and said second communication unit based on said address provided by said second communication unit.

17. (Previously Presented) A wireless communication system according to claim 1, wherein said second communication unit further includes:

a second wired connection detection section for detecting whether or not said wired connection for said wired data communication exists between said first wired communication unit and said second wired communication unit;

a further application for detecting said wireless connection; and

a further control section which:

1) responsive to said second wired connection detection section detecting that said wired connection between said first wired communication unit and said second wired communication unit exists, uses said wireless data communication to signal said first change-over switch to switch from

a) said wireless data communication using said first wireless communication unit to

b) said wired data communication using said first wired communication unit, and

2) responsive to said further application detecting that said wireless connection between said first wireless communication unit and said second wireless communication unit exists, uses said wired data communication to signal said first change-over switch to switch from

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- a) said wired data communication using said first wired communication unit to
- b) said wireless data communication using said first wireless communication unit.